

Region	State	EPA ID	Site Name	CC Date
9	CA	CAD048634059	ADVANCED MICRO DEVICES, INC.	9/17/1993
9	CA	CAD095989778	FAIRCHILD SEMICONDUCTOR CORP. (MOUNTAIN VIEW PLANT)	8/24/1999
9	CA	CAD071530380	FRONTIER FERTILIZER	7/31/2018
9	CA	CAD980736284	INDUSTRIAL WASTE PROCESSING	9/28/1999

Planned SWRAU Date from SEMS (as of 1/11/2021)	Is Planned SWRAU Date from SEMS correct? <i>Select response from dropdown menu in cell. If "No", enter updated date in next Column.</i>	Updated Planned SWRAU Date	Planned SWRAU Fiscal Year
Not Provided	No	9/30/2023	2023
2028/4	Yes	2030/4	2030
2021/4	Yes	2021/4	2021
2030/1	Yes	2030/1	2030

Do additional ICs need to be implemented at the site? <i>Select response from dropdown menu in cell. If "Yes", please include a description of <u>type</u> and <u>scope</u> of ICs in the "Comments" Column.</i>	If ICs need to be implemented, how many property parcels need ICs? <i>Enter numerical value and provide description in the "Comments" Column.</i>	If ICs need to be implemented, what type of IC instrument is anticipated? <i>Enter one or more of the following: Governmental, Proprietary, Enforcement, Informational.</i>
Yes	2	Proprietary
Yes	Cover large area of residential and commercial buildings - 600+	Governmental, proprietary, informational
Yes	2 (071-412-031 and 071-411-07)	Proprietary
Yes	zero; adjustments to be made to existing IC.	Proprietary

Does the decision document need to be amended to require ICs? <i>Select response from dropdown menu in cell.</i>	Does the selected remedy need to be re-evaluated to determine if additional actions need to be (or may need to be) taken? <i>Select response from dropdown menu in cell.</i>	Does the decision document need to be amended to require a remedy change? <i>Select response from dropdown menu in cell.</i>
No	No	Yes
No	Yes	Yes
No	No	No
Yes	Yes	Yes

<p>Are limited state/local resources an issue affecting the site meeting SWRAU?</p> <p><i>Select response from dropdown menu in cell. If "Yes", please describe in the "Comments" Column.</i></p>	<p>Is Vapor Intrusion an issue affecting the site meeting SWRAU?</p> <p><i>Select response from dropdown menu in cell.</i></p>	<p>Are there any other issues impacting the site's ability to meet SWRAU?</p> <p><i>Select response from dropdown menu in cell. If "Yes", please describe in the "Comments" Column.</i></p>
No	No	Yes
Yes	Yes	No
Yes	No	Yes
No	Yes	Yes

<p>Comments</p> <p><i>Enter description of IC-related issues, if applicable and any other issues impacting the site ability to meet SWRAU.</i></p>	<p>Issue Category - IC Implementation Needed/May Be Needed</p>
<p>One ROD that covers 3 sites adjacent to each other, including a large offsite operable unit. The remedy in the ROD is pump and treat, however, prior to 2014 when the site was state-lead site, AMD implemented a more robust in-situ bioremediation treatment technology with state approval. Additional rounds of injections are continuously needed, due to the use of low-weight carbon substrate; therefore construction complete is pending since the current remedial action is ongoing. A FFS and RODA will need to be prepared to capture the current ROD remedy changes. The deed restriction for the site was never finalized</p>	<p>x</p>
<p>Vapor intrusion assesement and mitigation work ongoing. New sewer pathway identified in 2020. Human exposures not yet under control and instituitional controls not yet in place to address current and potential future unacceptable vapor intrusion. Additionally, new Operable Unit and subsequent Shallow Zone ROD Amendment and Remdial Action will require additional constuction.</p>	<p>x</p>
<p>Due to the coronavirus pandemic the IC process has been stalled. EPA is still awaiting the State to get all the paperwork reviewed remotely and there are ongoing negotiations with an attorney. The land is being held in trust due to the land owner having passed away. RPM is checking in weekly to help move the process forward.</p>	<p>x</p>
<p>There are ongoing vapor intrusion issues at the site that need to be addressed. Due to the pandemic the schedule for construction of the vapor intrusion system is delayed. HEUC evaluation will need to be revisited.</p>	<p>x</p>

Issue Category - Decision Document for ICs Needed/May Be Needed	Issue Category - Remedial Action Needed/Underway/May Be Needed	Issue Category - Decision Document for Remedial Action Needed/May Be Needed
	X	X
	X	X
X	X	X

Issue Category - Vapor Intrusion/Possible Vapor Intrusion	Issue Category - Other	HQ Notes and Comments
	x	state coordination
x		
	x	COVID impacts; state coordination; no owner
x	x	COVID impacts

Comments on Issue Category	Additional Information from Region (RPM Name)
RPM made additional changes to site description (Column S). Columns W and Y revised. Construction Complete not considered achieved.	NA
No change in Columns T-Z, but columns H and I were changed to 2030/4 and 2030, respectively. RPM modified dates in SEMS.	NA
No changes to issues noted in columns T-Z, however, the RPM passed on additional complications in achieving SWRAU: (1) State PM on maternity leave and her role is not being covered by another PM; and (2) ROD references 2 parcels, however city recently condemned part of one parcel, which effectly split the site into 3 parcels rather than 2, making land/IC coordination more complex.	NA
	NA

Additional Information from Region (SC Name)	REFERENCE INFORMATION - site details submitted by the Region during previous years' audit efforts
NA	June 2018 Update: Vapor intrusion assessments and mitigation work ongoing in homes and school buildings above the solvent plume. Human exposures not yet under control and institutional controls not yet in place to address current and potential future unacceptable vapor intrusion. Currently highly-developed area of Silicon Valley with commercial and residential use above the plume. Remains a priority site to complete the VI investigation.
NA	2021 Update: Vapor intrusion assessment and mitigation work ongoing. New sewer pathway identified in 2020. Human exposures not yet under control and institutional controls not yet in place to address current and potential future unacceptable vapor intrusion. Additionally, new Operable Unit and subsequent Shallow Zone ROD Amendment and Remedial Action will require additional construction.
NA	State committed to completing IC's this FY. SWRAU projected for next FY.
NA	Installing vapor intrusion mitigation system this FY to achieve HEUC. Have residual VOC cleanup that will need to occur, likely via SVE system.

9	CA	CAD061620217	INTEL CORP. (MOUNTAIN VIEW PLANT)	8/24/1999
9	CA	CAD041472341	INTERSIL INC./SIEMENS COMPONENTS	9/8/1992
9	CA	CAT000646208	LIQUID GOLD OIL CORP.	9/27/1995

2025/4	Yes	2030/4	2030
2035/4	Yes	2035/4	2035
2022/4	Yes	2022/4	2022

Yes	Covers large area 600 + residential and commercial buildings	Governmental, proprietary. Enforcement, informational
No	N/A	N/A
Yes	1	Governmental

No	Yes	Yes
No	No	Yes
No	No	No

Yes	Yes	No
No	No	No
Yes	No	No

<p>Vapor intrusion assesement and mitigation work ongoing. New sewer pathway has been identified in 2020. Human exposures not yet under control and institutional controls not yet in place to address current and potential future unacceptable vapor intrusion. Additionally, new sewer migration pathway and subsequent ROD Amendment and Remedial Action will require additional constuction.</p>	<p>x</p>
<p>State-lead NPL site. New EPA RPM assigned to site (new to Agency). Work will continue at site, but delayed SWRAU achievement due to vacancy and staff turnover.</p> <p>It is still too soon to determine if ROD 45 to 85 year remedial timeframes will be met, currently, exposure pathways are under control, which is documented in the 2020 five-year review. The site is currently in a highly-developed area of Silicon Valley located across the street from Apple's main headquarters, with commercial and residential use above the plume.</p> <p>The remedy in the ROD is groundwater pump and treat and vapor extraction, however, due to groundwater elevation rise in mid-2000's, the state allowed the vapor extraction system to be shutdown. State informally implemented multiple robust in-situ bioremediation treatment technology pilot tests. An ESS or RODA needs to be prepared to capture ROD remedy changes.</p> <p>Located at: 10900 N Tantau Ave / 19000 Homestead Rd, Cupertino, CA</p>	<p>x</p>
<p>Land swap negotiations are ongoing between Regional Parks District and PRP. Realigned fencing has been constructed. Once land issues are resolved, the State will record the deed restriction.</p>	<p>x</p>

	x	x
x	x	x

x		
		need more information about status of site; if ICs and all remedies constructed, SWRAU can be achieved prior to GW cleanup goals are met
	x	state coordination

No change in Columns T-Z, but columns H and I were changed to 2030/4 and 2030, respectively. RPM modified dates in SEMS.	NA
RPM made additional changes to site description (Column S). Columns T through W have been modified accordingly.	NA
	NA

NA	2021 Update: Vapor intrusion assesement and mitigation work ongoing. New sewer pathway identified in 2020. Human exposures not yet under control and institutional controls not yet in place to address current and poential future unacceptable vapor intrusion. Additionally, new Operable Unit and subsequent Shallow Zone ROD Amendment and Remdial Action will require additional constuction.
NA	<p>New EPA RPM assigned to site (new to Agency). Work will continue at site, but delayed SWARU acheivement due to vacancy and staff turnover.</p> <p>Data gaps in the characterization of the extent of groundwater contamination were addressed by the RP and summarized in a report, which is currently undergoing State review. Currently highly-developed area of Silicon Valley with commercial and residentail use above the plume. Need to assess whether to add 1,4-dioxane as a COC for the site.</p>
NA	State-lead site, delisted in 1996. Land encroachment issues and subsequent negotiations between PRP and Regional Parks District need to be resolved to realign access controls to completely enclose cap. New fence has been installed; State needs to update deed restrictions once land swap is complete.

9	CA	CAD041472986	NATIONAL SEMICONDUCTOR CORP.	10/16/1997
9	CA	CAD980736151	PURITY OIL SALES, INC.	9/28/2012
9	CA	CAD009205097	RAYTHEON CORP.	8/24/1999
9	CA	CA7210020759	RIVERBANK ARMY AMMUNITION PLANT	9/30/1997
9	CA	CAD009138488	SPECTRA-PHYSICS, INC.	9/16/1992
9	CA	CAD009111444	TELEDYNE SEMICONDUCTOR	3/31/1992

Not Provided	No	2036/4	2036
2023/4	Yes	2023/4	2023
2028/4	Yes	2030/4	2030
2027/4	Yes	2027/4	2027
Not Provided	No	2022/4	2022
Not Provided	No	2022/4	2022

Yes	zero; update existing ICs.	Proprietary
No	N/A	N/A
Yes	Cover large area of residential and commercial buildings - 600+	Governmental, proprietary, enforcement, informational
Yes	Sitewide GW	Proprietary, Enforcement
No	N/A	N/A
No	N/A	N/A

Yes	Yes	Yes
No	No	No
No	Yes	Yes
Yes	No	Yes
No	No	No
No	No	No

No	Yes	No
No	No	Yes
Yes	Yes	No
No	No	No
No	No	No
No	No	No

This is a State-lead site. Vapor intrusion assessment was conducted, but will need an additional evaluation of a daycare facility to ensure that the entire OU is covered. HEUC also needs to be evaluated once the vapor intrusion data is complete. RPM is currently preparing a ROD amendment to include vapor intrusion work since the previous ROD does not include this. The treatment strategy for groundwater also needs to be re-evaluated, and a more robust groundwater treatment system may potentially be considered. There are several sites within R9 with the site name "National Semiconductor Corp" and the site with the ID CAD041472986 has a SWRAU projection date of 9/30/2026.	x
ICs are needed on adjacent properties. EPA, State, and County are working together to evaluate and implement, if needed, ICs.	x
Vapor intrusion assesement and mitigation work ongoing. New sewer pathway has been identified in 2020. Human exposures not yet under control and institutional controls not yet in place to address current and potential future unacceptable vapor intrusion. Additionally, new sewer migration pathway and subsequent Shallow Zone ROD Amendment and Remedial Action will require additional constuction.	x
Removal of PCBs inside the buildings are ongoing through TSCA program. A separate removal of PCBs in soil outside of buildings is ongoing as well. Groundwater plume is still being remediated and an ESD is being prepared to document the groundwater ICs.	x
Site has met the criteria for SWRAU metric. RPM is currently preparing the SWRAU checklist. SWRAU is listed in SEMS as planned for 9/30/2022, however, it will likely be achieved by the end of FY 2021.	
Site has met the criteria for SWRAU metric. RPM is currently preparing the SWRAU checklist. SWRAU is listed in SEMS as planned for 9/30/2022, however, it will likely be achieved by the end of FY 2021.	

X	X	X
	X	X
X	X	X

x		state coordination
x		
	x	SEMS planned date needs to be updated to reflect FY21; 2021 SWRAU target
	x	SEMS planned date needs to be updated to reflect FY21; 2021 SWRAU target

	NA
Site updates in Column S.	NA
No change in Columns T-Z, but columns H and I were changed to 2030/4 and 2030, respectively. RPM modified dates in SEMS.	NA
Yes to Column W: "decision document for RA needed/may be needed" column, as a removal plan as well as ESD is warranted.	NA
RPM indicated she would update SEMS.	NA
RPM indicated she would update SEMS.	NA

NA	June 2018 update still accurate: Vapor intrusion assessments and mitigation work ongoing in commercial buildings above the solvent plume to address unacceptable vapor intrusion. Human exposures not yet under control and institutional controls not yet in place to address current and potential future unacceptable vapor intrusion. Currently highly-developed area of Silicon Valley with commercial and residential use above the plume. In addition, the site is a state-lead site, and we have been urging more action on the part of the state, but with little success. It also had no EPA RPM assigned for over a year due to staff shortages.
NA	June 2018 update still accurate: IC implementation issues - PRP does not own the site, and there is no owner of record. ICs are also needed on adjacent properties and those landowners may not be in favor of implementing ICs. Site remains unassigned, as it has now for over a year. Plan to assign site to newly hired RPM this FY.
NA	2021 Update: Vapor intrusion assessment and mitigation work ongoing. New sewer pathway identified in 2020. Human exposures not yet under control and institutional controls not yet in place to address current and potential future unacceptable vapor intrusion. Additionally, new Operable Unit and subsequent Shallow Zone ROD Amendment and Remedial Action will require additional construction.
NA	After achieving CC the site was declared SWRAU, then retracted when it was BRAC'd because of FF program policy that it was not all ready for transfer yet. Then additional PCB contamination was discovered related to the decay of building materials that released PCBs into the environment. Those areas are still being addressed and will take more time. This is ironic though, because the Army currently leases the site to the City of Riverbank who generates \$22 mil annually in revenue from the site. So it is clearly in use while the remaining cleanup is underway.
NA	Completing decision document this FY. Will implement decision document next FY to make progress towards SWRAU.
NA	Completing decision document this FY. Will implement decision document next FY to make progress towards SWRAU.

9	CA	CAD009159088	TRW MICROWAVE, INC (BUILDING 825)	9/17/1993
9	CA	CAD980893234	WATKINS-JOHNSON CO. (STEWART DIVISION PLANT)	9/22/1994

Not Provided	Yes	2030/4	2030
2028/4	Yes	9/30/2028	2028

No	N/A	N/A
Yes	Few parcels; there are several light commercial buildings within site boundary	Governmental

No	No	Yes
Yes	Yes	No

No	No	No
No	Yes	Yes

<p>The TRW (now Northrop Grumman Corp) ROD also includes the AMD and Signetic's (now Phillips Semiconductors) offsite operable unit (OOU). The remedy in the ROD is pump and treat, however, prior to 2014, when the site was state-lead, NGC implemented a more robust in-situ bioremediation treatment technology. A FFS and RODA need to be prepared to capture the ROD remedy changes. The OOU is being addressed under CERCLA as the Triple Site (a non-NPLS site) with Philips Semiconductor acting as the lead.</p>	
<p>If developer decides to construct residential properties, the selected remedy will need to be reevaluated. VI may be an issue if land is used for residential purposes rather than industrial. VI evaluation still underway. There are issues with obtaining access to properties to destroy wells associated with property, which is stalling progress towards SWRAI</p>	<p>x</p>

x	x	x
x	x	

		may need more information about status of site
x	x	access issue

<p>RPM made additional changes to site description (Column S). Columns U through W have been modified accordingly.</p>	<p>NA</p>
<p>Column AD, second sentence - WJ is NOT installing VI mitigation system this FY to achieve HEUC.</p> <p>No other changes.</p>	<p>NA</p>

NA	<p>June 2018 update still accurate: Vapor intrusion assessments and mitigation work ongoing in homes and school buildings above the solvent plume. Human exposures not yet under control and institutional controls not yet in place to address current and potential future unacceptable vapor intrusion. Currently highly-developed area of Silicon Valley with commercial and residential use above the plume. Remains a priority site to complete the VI investigation.</p>
NA	<p>Likely to remain industrial use. Installing VI mitigation system this FY to achieve HEUC. Have residual VOC cleanup that will need to occur, likely via SVE system.</p>

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